A Realization of RFC XXXX Network Slices for 5G Networks Using Current IP/MPLS Technologies: Updates & Next Steps

draft-ietf-teas-5g-ns-ip-mpls-01

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Summary of Issues & Resolution (1)

- Assess which/whether some of the material in the "Network Slice Mapping" Section should be maintained in this draft or moved to the application I-D
  - Sync with the authors of the application I-D
  - The outcome is to keep the text in the realization I-D + Add NEW Scope text to both I-Ds to help decide if similar issues are raised in the future
  - Proposed fix shared on the list (October 04, 2023): https://mailarchive.ietf.org/arch/msg/teas/4QifnnGAcnQcCTXRLSJtQ1SArLA/
  - Removed the editor note used to flag the issue from draft-ietf-teas-5g-ns-ip-mpls-01

Avoid Overlapping with teas-application I-D

This document focuses on the ***mapping between 5G Slices and underlying Transport Networks.*** Specifically, the document describes ***how RFC XXXX Network Slice Services can be derived in the context of a 3GPP Slice Service.*** To that aim, the document explores how and whether 3GPP Slice Service ***parameters are mapped to parameters that are exposed in IETF service data models*** (mainly, IETF Network Slice Service Model, Attachment Circuits'-as-a-Service (ACaaS), and bearers). ***It is out of scope of this document to elaborate on the realization*** of RFC XXXX Network Slices. These considerations are discussed in [I-D.ietf-teas-5g-ns-ip-mpls].

NEW Scope text added to draft-ietf-teas-5g-network-slice-application

Avoid Overlapping with teas-application I-D

This document focuses on the ***technical realization of RFC XXXX Network Slices***. The realization is typically triggered by Network Slice Service requests. ***How a Network Slice Service request is placed for realization, including how it is derived from a 5G Slice Service request, is out of scope***. Network Slice Service mapping considerations (e.g., mapping between 3GPP to IETF service parameters) are discussed in [I-D.ietf-teas-5g-network-slice-application].

NEW Scope text added to draft-ietf-teas-5g-ns-ip-mpls

Summary of Issues & Resolution (2)

- Assess whether we need to maintain the "First 5G Slice vs Subsequent Slices" Section
  - Updated the text to clarify why this is relevant to the realization
  - Proposed fix shared on the list (October 06, 2023)

- Clarify the use of inter-AS option B/C to model the AC between CE and PE
  - Updated the text to insist on the specifics of this model compared to distributed and managed CE models
  - Change to “service-aware CE”
  - Proposed fix shared on the list (here) (October 06 , 2023)

- Further discuss whether the TN slice in the customer site is covered or is out of the scope of Network Slice
  - We agree that statement is ambiguous and, more importantly, does not bring much. What is important in that section is to describe the various orchestration domains.
  - We deleted that statement
  - Proposed fix already shared on the list (October 06, 2023)

Other Changes

- Added a NEW Section to cover « inter-AS Option C » considerations
- And many other edits to enhance readability

Next Steps

- The authors think that the content is almost stable
  - 12 revisions so far

- ***Proposal***: Target WGLC by March 2024
  - Request early directorate reviews right after IETF#118, especially
    - rtg, opsdir, tsvart (QoS part), & intdir (addressing part)
  - Seek external reviews on specific sections
    - We already received some ACKs to review
    - Contacted tsvwg for feedback

- Comments are welcome
  - Issues and PRs can be issued at https://github.com/boucadair/5g-slice-realization